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10:1	_			Application Number	10/692,169			
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<i>i</i>	<u>\&</u>	FORM		First Named Inventor	William Kress Bodin	Villiam Kress Bodin		
1 8	be used for	r all correspondence after initia	filing)	Art Unit	3661			
4PR 1 8 2005	<i>§</i>			Examiner Name	Unknown			
PATENT	W /	of Pages in This Submission	6	Attorney Docket Number	AUS920030676US1	1		
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		ee Attached	<u> </u>	icensing-related Papers		Appeals	mmunication to Board and Interferences	
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	Firm	John Biggers	TORE O	F APPLICANT, ATTORNE	Y, OR AGEN	l		
	or Individual name	Reg. No. 44,537						
	Signature	Mhin	73. :	rgen				
	Date	April 14, 2005	100	yen _				
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	Typed or printed i	name Catherine Berglui						
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NOTHER NITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	§
William Kress Bodin, et al.	§ Group Art Unit: 3661
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Serial No.: 10/692,169	§ Examiner: Unknown
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Filed: October 23, 2003	§ Atty Docket No.: AUS920030676US1
	§
Title: Navigating a UAV	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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Catherine Berglund

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Submitted herewith are patents, publications or other information of which the undersigned is aware, which he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

While this Supplemental Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with CFR 1.97(g) the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists.

This Supplemental Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits. 37 CFR 1.97(b).

A list of the patents(s) and/or publications(s) is set forth on the attached Forms PTO/SB/08a & b.

A concise explanation of the items listed on PTO/SB/08a is not given.

The person making this statement is the attorney who signs below on the basis of the information in the attorney's file.

Respectfully submitted,

Date: <u>April 14, 2005</u> By:

John Biggers

Reg. No. 44,537

Biggers & Ohanian, LLP 504 Lavaca Street, Suite 970 Austin, Texas 78701-2856

Telephone: (512) 472-9881 Facsimile: (512) 472-9887

ATTORNEY FOR APPLICANT(S)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Substitute for form 1449/PTC

Sheet 1

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/692,169	_		
Filing Date	10/23/2003			
First Named Inventor	William Kress Bodin			
Art Unit	3661 ^e			
Examiner Name	Unknown			
Attorney Docket Number	AUS920030676US1			

	C:4+			DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		US- 5,000,444	04.00.4000	10:	rigures Appear
		^{US-} 5,890,441	04-06-1999	Swinson et al.	
		^{US-} 6,056,237	05-02-2000	Woodland	}
		^{US-} 6,130,705	10-10-2000	Lareau et al.	
		^{US-} 6,219,004 B1	04-17-2001	Johnson	
		^{US-} 6,377,875 B1	04-23-2002	Schwaerzler	
		^{US-} 6,498,968 B1	12-24-2002	Bush	
		^{US-} 2001/0035995 A1	11-01-2001	Ruggiero	
		^{US-} 5,581,250	12-03-1996	Khvilivitzky	
		^{US-} 5,240,207	08-31-1993	Eiband et al.	
		^{US-} 5,552,983	09-03-1996	Thornbert et al.	
		^{US-} 5,716,032	02-10-1998	McIngvale	
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		FORE	IGN PATENT DOCU	MENTS		
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
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Examiner Signature	Date Considered	

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			CLOSURE	Filing Date	10/23/03	
STATEMENT BY APPLICANT				First Named Inventor	William Kress Bodin	
	(Use as many she	ets as n	ecessarv)	Art Unit	3661	
				Examiner Name	Unknown	
Sheet	2	of	4	Attorney Docket Number	AUS920030676US1	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SUTCLIFFE, et al.; Decentralised Data Fusion Applied to a Network of Unmanned Aerial Vehicles; Inspec AN 7289965; Feb. 2002; pp 71-76; Piscataway, NJ; USA	
		JOHNSON, et al; Improving Geolocation and Spatial Accuracies with the Modular Integrated Avionics Group; Inspec AN 5467118; pp 88-97; April 1996; SPIE-Int. Soc. Opt.; England	
		GUNAPALA, et al.; QWIP Technology for Both Military and Civilian Applications; Inspec AN 7255522; April 2001; pp 498-505; SPIE-Int. Soc. Opt.; England	
		SPENNY, et al; Closely Supervised Control of a Target-Steered UAV; Inspec AN 6652724;Sept 1999; pp179-190; SPIE-Int. Soc. Opt.; England	
		RQ-1 Predator Unmanned Aerial Vehicle; May 2002; pp 1-3; U.S. Air Force Fact Sheet; USA	
		GORMLEY, et al; Controlling Unmanned Air Vehicles: New Challenges; March 2003; pp 1-21; Commissioned by the Non-Proliferation Education Center; USA	
		YOUNG; Unmanned Aerial Vehicles Web Site; pp 1-2; NASA GSFC/Wallops Flight Facility, Wallops Island, VA; USA	
		Unmanned Aircraft.com Website; http://www.unmannedaircraft.con/	
		STELLMAN, et al.; War Horse; April 2001; Inspec. AN 7295892; Vol 4379; pp 339-346; SPIE-Int. Soc. Opt.; USA	
		DITTRICH, et al.; 21st Digital Avionics Systems Conference; October 2002; Inspec. AN 7614545; Vol 2; IEEE; Piscataway, NJ; USA	

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				Application Number	10/692,169	
l			CLOSURE	Filing Date	10/23/03	
STATEMENT BY APPLICANT				First Named Inventor	William Kress Bodin	
	(Use as many she	ets as n	ecessarvi	Art Unit	3661	
<u> </u>				Examiner Name	Unknown	
Sheet	3	of	4	Attorney Docket Number	AUS920030676US1	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		DITTRICH; Design and Integration of an Unmanned Aerial Vehicle Navigation System; Thesis; May 2002; pp i-52; Georgia Institute of Technology; USA	
		Figure 8: Data link module with removed side panel; pp 18-37; USA	
		Figure 17: Simulated GPS malfunction, on the ground, 15 sec; 38-52; USA	
		SOMERS; Unmanned Aerial Vehicle - Demonstration of Autonomous Flight, 09-9822; 1999 IR&D Home; pp 1-4; USA	
		BROWN, et al.; Airporne Reconnaissance XXIII; July 1999; pp 2-8; Vol. 3751; SPIE-Int. Soc. Opt; England	
		NETTLETON, et al.; Multiple Platform Localization and Map Building; Nov 2000; pp 337-347; Inspec AN 6979413; SPEI-Int. Soc. Opt. Eng; US	
		SCHUMACHER et al.; Adaptive Control of UAVs in Close-coupled Formation Flight; 2000; pp 849-853; Insp An 6770904; vol 6 Danvers, MA; US	
		SINGH et al; Adaptive Feedback Linearizing Nonlinear Close Formation Control of UAVs; 2000; pp 854-858; Inspec AN 6770905; vol 2; Danvers, Ma; US	
		21st Digital Avionics Systems Conference; 2002; Inspec AN 7614402; vol 1; IEEE; Piscataway, NJ; US	
		HALLBERG, et al.; Development of a Flight Test Systems for Unmanned Air Vehicles; Feb 1999; pp 55-65; IEEE vol. 19; Inspec AN 6176739; Monterey, CA; US	

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Signature	Considered	

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			Application Number	10/692,169	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Filing Date	10/23/03	
			First Named Inventor	William Kress Bodin	
			Art Unit	3661	
			Examiner Name	Unknown	
Sheet 4	of	4	Attorney Docket Number	AUS92003676US1	

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		SHILLER, et al.; Mission Adaptable Autonomous Vehicles; 1991; pp 143-150; Inspec AN 4208922; Newton, MA; US					

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